Panasonic

ideas for life

AG-DVC30

Mini-DV Camera-Recorder (PAL)

LEICA DICOMAR

Mini DV Digital Video Cassette

The Professio

Meet the compact DV camera for professional use. Featuring a wide-angle 16x optical zoom lens and a 3CCD camera system with broadcast-grade image quality and superb sensitivity, the compact AG-DVC30 caters to the needs of professional users with multiple shooting modes and versatile system expandability.

Professional Performance

Multiple modes meet professional needs, backed by the beautiful images of a wide-angle 16x zoom lens and 3CCD

The Leica Dicomar 16x optical zoom lens covers the shooting range that professionals require, from wide angle to telephoto. A 3CCD camera system with broadcast-level resolution (470,000 pixels) and RGB gamma processor produce class-leading image quality, sensitivity, and low noise. Added to this are an ultra-sensitive and dramatic slow shutter mode (accumulative), a Cine-Like gamma curve, film-like 30-fps frame recording, and the world's first* infrared nighttime shooting mode (B&W) in a 3CCD camera-recorder. This long list of shooting modes and features makes the AG-DVC30 ideal for professional use.

*According to a Panasonic survey

nal Compact

Style 1 *Style 2* *Style 3*

Professional Design

Total mobility? Easy carrying? Or advanced audio specs? With the multi-style handle, the choice is yours.

Designed with the professional in mind, the AG-DVC30 introduces a new detachable handle that adds versatility by letting you use this compact DV camera three different ways.

Style 1: With handle detached, this super-compact 3CCD camera fits easily into a bag or pack for highest mobility.

Style 2: With handle in place, the AG-DVC30 is easy to carry and easy to use, even when shooting at difficult angles.

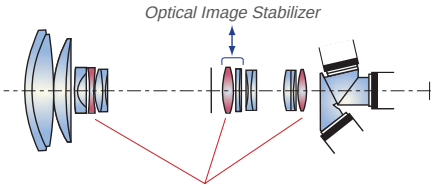
Style 3: With the optional XLR adapter mounted on the handle, the AG-DVC30 has outstanding audio specs, plus the ability to add two external phantom mics or line inputs with "glow in the dark" level controls.

High Quality

Outstanding Image Quality, Sensitivity and Wide-Angle Framing — Plus Extra Versatility

Wide-Angle, High-Magnification Leica 16x Zoom Lens

The AG-DVC30's Leica Dicomar 16x optical zoom lens answers a broad range of shooting needs, delivering superb results from 39.5mm wide angle all the way to 632mm telephoto (both 35mm lens equivalents). In wide-angle performance — critical in broadcast and other professional applications — this lens is tops in its class. Behind this outstanding performance are the advanced optical technologies and expertise that have made Leica Camera AG one of the most respected names in the camera world. This new 16x optical zoom lens system uses low-dispersion glass and aspherical lenses to reduce colour aberration and boost resolution. Use of a special multi-coating process dramatically reduces flare and ghosts. The result: sharp, crisp, beautifully rendered pictures with vivid colours, delicate nuances, and exceptional shading.

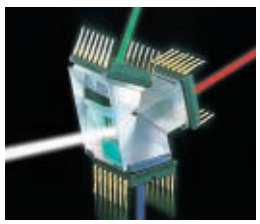


*Leica and Dicomar are registered trademarks of Leica Microsystems IR GmbH.

Optical Image Stabilizer Compensates for Hand Shaking

The AG-DVC30's advanced Optical Image Stabilizer (OIS) compensates for hand shaking that occurs as you shoot. A gyrosensor detects hand-shake and sends signals to a linear motor, which adjusts the lens to compensate. Because this process takes place prior to the CCD image capture (rather than in the downstream electronic processing), it virtually eliminates any effect of hand-shake on resolution and screen angle. The OIS can also be helpful when zooming or shooting in dim lighting.

1/4-Inch, 470,000-Pixel 3CCD Image System: High Sensitivity, Low Noise



To assure a level of picture quality suitable for professionals, the AG-DVC30 uses a 3CCD image system that delivers the highest sensitivity in its class. Its high S/N ratio and extremely low noise (in darker areas of a picture) combines with high sensitivity to deliver excellent image quality even when shooting indoors under dim lighting. When shooting in sunlight or under bright spotlights, this 3CCD system offers low smear.

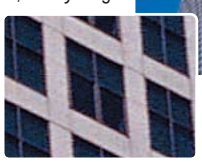
12-bit A/D and RGB Gamma Processor

The AG-DVC30 features an A/D converter that uses the same 12-bit processing as broadcast-quality camera-recorders. This, combined with an RGB gamma processor that uses Panasonic's unique gamma curve function, helps assure high-image-quality processing. In fact, the AG-DVC30's A/D converter and RGB gamma processor are the same ones used in our popular AG-DVX100B, which has won acclaim as the industry's highest image quality DV camera.

A Digital Zoom for Professionals

Engineered for professionals, the AG-DVC30 is equipped with a digital zoom that instantly magnifies the image by any of five fixed values — 1.25x, 1.5x, 2x, 5x or 10x. Use it together with the 16x optical zoom lens, and you get super-telephoto magnification equivalent to a 160x zoom. Image degradation during the digital processing is particularly low in the 1.25x magnification mode, so you get superb zoom quality all the way to 20x.

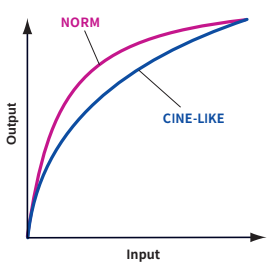
Wide (x 1) Image

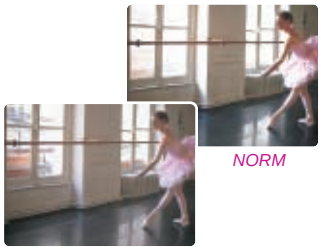


x 20 Zoom Image

Movie Simulation Mode

The AG-DVC30 can capture and reproduce images that are strikingly similar in tone to film images, thanks to Panasonic's unique Cine-Like gamma curve and a 25-fps frame recording function that electronically interpolates interlaced images to create frames with no time differences between fields.* Settings for this mode are preset in the Movie-Like scene file.





NORM

CINE-LIKE

Gamma Curve and Images (conceptual)

*The resulting images are not the same as native progressive images recorded with a progressive CCD.

High-Sensitivity Slow Shutter

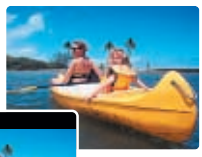
The slow shutter function uses image accumulation to allow shutter speeds with frame rates reduced by half or more. The accumulation method provides bright-colour images with less noise than those captured using conventional gain-up, so you get the higher sensitivity needed for nighttime shooting without illumination. The slow shutter function can also be used to obtain movie-like effects.

Gain Up Image

Slow Shutter Image

16:9 Wide Recording

The aspect ratio can be set to either 4:3 or 16:9 to accommodate wide-image recording. In 16:9 recording, you can select either letterbox or squeeze mode, giving you more possibilities in downstream editing and playback.



4:3

16:9 Letter Box

16:9 Squeeze

Zero Lux IR Mode (Super Nighttime Shooting System)

The AG-DVC30 is the world's first* 3CCD camera-recorder to offer B&W recording in the dark using infrared light. This opens the door to a host of new possibilities in nighttime monitoring, surveillance and news gathering. The built-in infrared light makes it possible to record at a distance of about 5 m*.

*According to Panasonic testing

**Image of Zero Lux IR Mode and date/time superimpose.*

Date/Time Superimpose Function

The AG-DVC30 can superimpose the date and time onto the video signal as you shoot. This is especially useful and in many cases a requirement for depositions, court reporting and surveillance recordings. The date and time cannot be replaced during dubbing or editing operations, as can happen with most other cameras.

Operability

Professional System Functions and Easy Operartion

Professional Audio Quality with XLR Mic (Optional)

The AG-DVC30 comes equipped with a built-in stereo microphone. Adding the optional AG-MYA30G XLR adapter provides you with +48 V phantom mic and line input needed for news gathering. Featuring two XLR audio input terminals and level controls, the adapter lets you independently switch channel 1 or channel 2 to mic or line input, with each having its own "glow in the dark" level adjustment.

Audio Level Meters

Two colour audio level meters can be displayed in the viewfinder and LCD monitor, making it easy to check the signal as you record.

Full Auto or Manual Shooting

Use the AG-DVC30 for either full auto or manual shooting.
The Auto/Manual switch turns the four auto functions — focus, shutter speed, iris & gain, and white balance — on and off as desired. Manual focusing is controlled by the large focus ring. You can also switch between manual and auto focus by pushing the Focus button. For added convenience, one of the user buttons can be assigned to turn auto focus on and off.

Multi-Function Focus Ring

In Auto Focus, control over either the zoom or the iris & gain can be allocated to the focus ring, letting you make quick, detailed adjustments manually.

Focus Assist with One-Push Zoom

When a user button is assigned the PUSH AF+ZOOM function and the AG-DVC30 is in Auto Focus, the camera will continue to zoom as long as you hold the button down, then return to the original zoom position when you release it. This helps you zoom and focus more quickly in manual shooting mode.

Three User-Assignable Buttons

The AG-DVC30 provides three user buttons that can be assigned to any of 16 camera functions and three VCR functions. User button 1 is positioned atop the hand grip for easy access when shooting with one hand.

Camera functions: PUSH AF+ZOOM, PUSH AF, WHITE BAL, AWB LOCK, BACKLIGHT, SPOTLIGHT, REC CHECK, D.ZOOM, WHITE FADE, BLACK FADE, PHOTO SHOT, INDEX, SNS (Super Nighttime Shooting), EVF DTL, LUMI-FLICK, AE LOCK

VCR functions: BLANK SEARCH, AUDIO DUB, INDEX

WHITE BAL and SNS can be allocated to user button 1 only.

Four Scene Files

The AG-DVC30 can save four sets of camera settings as "scene files" for instant recall later in similar shooting conditions. Scene files 1 and 2 are freely settable. Files 3 and 4 are preset (see list below), but you can change the values as desired.

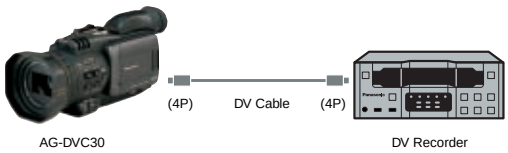
1	SCENE 1:	User setting (standard values)
2	SCENE 2:	User setting (standard values)
3	B.PRESS:	For sharper contrast in dark portions
4	MOVIE-LIKE:	Movie Simulation Mode

Shooting Support Functions

- **Backlight correction**: Backlighting compensation can be assigned to a user button for instant results.
- **AE Lock:** Locks the subject brightness; can be assigned to a user button.
- **Zebra:** Displays an overexposure warning on the viewfinder and monitor
- **Marker:** Detects and displays the Video Brightness level in a very useful, repeatable numerical value.
- **Mode check:** Displays the camera settings on the viewfinder and monitor, for easy checking before you shoot.
- **Zoom position:** Displays the zoom position as a repeatable, numerical representation in the viewfinder.

IEEE 1394 Terminal with Synchro Lock

An IEEE 1394-compliant 4-pin DV terminal makes it easy to upload data from the AG-DVC30, or to dub footage onto a DV recorder. This terminal also features a new synchro lock function that lets you use the AG-DVC30 to remotely start and stop an external DV device.
Three recording modes help protect against mistakes: record onto external recorder only, record onto both AG-DVC30 and external recorder, begin external recording when the AG-DVC30 tape ends.



Reliability

Designed for Prosessionals

Precise Balance

The grip conforms neatly to the hand and is positioned at the camera's center of gravity for perfect balance. This, plus the AG-DVC30's light weight — approximately 1 kg — makes it easy to frame shots and shoot without fatigue.

3.5" Colour LCD Monitor and Tilt-Up Viewfinder

The large 3.5" colour LCD monitor rotates 270 degrees, making it easy to shoot at difficult angles and the Mirror mode makes it easy to record yourself. The display is bright too, so even outdoors you get good visibility when using the LCD to monitor footage or select settings from the menu. For added ease of use when taking low-angle shots, you also can tilt the viewfinder 70 degrees upward.

More Features for Professionals

- Built-in time code generator/reader
- Built-in colour bars - useful for setup
- Shutter: Maximum speed of 1/8,000 sec. When the AG-DVC30 is recording a computer display, a synchro scan function matches the shutter speed to the monitor to minimize flicker.
- A second Start/Stop button positioned toward the top front for easy access
- Index: Insert index points as you shoot - convenient when searching later (can be assigned to a user button)
- User File: Save sets of camera settings for instant recall
- Line recording: S-Video In/Out, AV In/Out and mic input terminals provided

Magnesium Alloy Chassis

Designed for professionals, the AG-DVC30 boasts the same tough magnesium alloy diecast chassis as our DVCPRO broadcast models.
This rigid casing protects the high-precision components from bumps and jolts, helps shield out interface and provides the AG-DVC30 with the reliability and durability needed for active field use.

Automatic Head Cleaning

The AG-DVC30 provides the same head cleaning function as our DVCPRO models.
The white roller pad positioned to the right of the head cylinder cleans the head each time you load a tape, helping to minimize dropouts and head clogging.

•Included

A Logical, Intuitive Layout

Detachable handle: Quick, secure and easy detachment – no tools required

Viewfinder: Slides and tilts upward. Large eyecup

User buttons 2 and 3: Assignable (user button 1 is on the hand grip)

Auto/Manual switch

Buttons that are used less are set inside the LCD panel

3.5-inch LCD

Lens hood: Resilient elastomer (synthetic rubber)

SNS button: Zero Lux IR Mode On/Off

Auto/manual focus button, white balance button

Jog dial: To control shutter speed, manual aperture, and menu selection

User button 1: assignable

Zoom lever

Built-in Stereo mic

REC Start/Stop button: Convenient when using a tripod or for low-angle shooting

Terminals for headphone, digital interface, and camera remote. Split cover allows access to headphone terminal only.

Power On/Off, CAM/VTR selector, REC Start/Stop

S-Video In/Out, Mic In/Out, AV In/Out, XLR Adapter terminals (XLR Adapter can be used with cover attached)

AG-DVC30 Accessories

AG-MYA30G
XLR microphone adapter

AG-MC100G
XLR microphone

AG-B15
AC adapter kit

IEEE 1394 Interface cable

CGR-D16S
Battery Pack (1600m Ah)

CGA-D54S
Battery Pack (5400m Ah)

AG-LW4307P
Wide conversion lens

AG-SC100G
Soft carry case

BT-LH2600W
26" HD/SD LCD Monitor

BT-LH1700W
17" HD/SD LCD Monitor

BT-LH900A
8.4" HD/SD LCD Monitor

AY-DVM63PQ
Professional Series Tape

AY-DVM63AMQ
Advanced Master Quality Series Tape
*Please do not use 80 minutes miniDV cassette tapes

AY-DVMCLC
Cleaning tape

AG-DVC30 Specifications

[GENERAL]

Supply Voltage:	DC 7.2/7.9 V
Power Consumption:	5.0 W (when viewfinder is used) 6.1 W (when LCD monitor is used) 8.5 W (max.)
Operating Temperature:	0°C to +40°C
Operating Humidity:	10% to 85% (no condensation)
Weight:	Approx. 1.05 kg Approx. 1.20 kg with battery and cassette
Dimensions (WxHxD):	110 x 116 (160: with handle) x 235 mm

[CAMERA]

Pick-up Device:	1/4-inch interline transfer type CCD x 3
Picture Elements:	Total: 470,000 pixels Effective: 440,000 pixels (horizontal pixel shift system)
Lens:	Leica DICOMAR lens with optical image stabilizer, motorized/manual mode switching, 16x zoom F 1.6 (f = 4.1 to 65.6 mm) (35 mm equivalent: 39.5 to 632 mm)
Filter Diameter:	43 mm
Optical Colour Separation:	Prism system
ND Filter:	Auto On/Off by IRIS
Gain Selection:	0, +3, +6, +9, +12, +15, +18 dB
Shutter Speeds:	1/50, 1/60, 1/120, 1/180, 1/250, 1/350, 1/500, 1/750, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/8000 sec.
Synchro Scan Shutter Speeds:	1/50.2 to 1/248 sec.
Slow Shutter Speeds:	1/3, 1/6, 1/12, 1/25 sec.
Minimum luminance:	4 lux (F 1.6, 18 dB gain, 50 IRE video output)

[VTR]

Recording Format:	DV (Digital Video SD)
Tape Used:	6.35 mm wide metal tape (mini DV cassette)
Recorded Video Signals:	625/50i (PAL)
Recorded Audio Signals:	PCM digital recording 16 bits: 48 kHz/2 channels, 12 bits: 32 kHz/4 channels
Recording Tracks:	Digital video, audio signals: helical track Time code: helical track (sub-code area)
Tape Speed:	SP mode: 18.831 mm/sec., LP mode: 12.568 mm/sec.
Recording Time:	SP mode: 60 minutes, LP mode: 90 minutes (when AY-DVM60 is used)
FF/Rew Time:	Approx. 140 sec. (when AY-DVM60 is used)

[AUDIO]

Sampling Frequency:	48 kHz/32 kHz
Quantizing:	16 bits/12 bits
Frequency Characteristics:	20 Hz to 20 kHz
Wow & Flutter:	Below measurable limits

[VIDEO]

Sampling Frequencies:	Y: 13.5 MHz, PB/PR: 6.75 MHz
Quantizing:	8 bits
Video Compression System:	DCT + variable length code
Error Correction:	Reed-Solomon product code

[CONNECTORS]

VIDEO IN/OUT:	AV Multi x 1, (input/output automatically switched) analogue composite input/output, 1.0 Vp-p, 75Ω
S-VIDEO IN/OUT:	4pin x 1, (input/output automatically switched) Y: 1.0 Vp-p, C: 0.3 Vp-p, 75Ω
AUDIO IN/OUT:	AV Multi x 1 (CH1, CH2) (input/output automatically switched) Input: –10 dBv, high impedance Output: –10 dBv, low impedance
DV:	4-pin, IEEE 1394 standard, digital input/output
Internal Microphone:	Stereo microphone
Outside Microphone:	Stereo Mini jack (3.5 mm diameter), –70 dBv
PHONES:	Stereo Mini jack (3.5 mm diameter)
XLR Adapter:	exclusive 8pin terminal for AG-MYA30G
CAM REMOTE:	Mini jack (2.5 mm diameter)
DC INPUT:	2P x 1, 7.9 V

[EQUIPMENTS]

LCD Monitor:	3.5-inch LCD colour monitor, 200,000 pixels
Viewfinder:	0.44-inch LCD colour viewfinder, 180,000 pixels
Internal Speaker:	20mm round shape, volume – or +

*The specifications given above were measured by playing back tapes recorded by the AG-DVC30 on standard VTRs.
Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Panasonic®

Matsushita Electric Industrial Co., Ltd.
Systems Business Group
2-15 Matsuba-cho, Kadoma, Osaka 571-8503
Japan
Phone +81 6 6905 4650 Fax +81 6 6908 5969
https://eww.pavc.panasonic.co.jp/pro-av/

[Countries and Regions]

Argentina	+54 1 308 1610
Australia	+61 2 9887 6222
Austria	+43 (0)1 610 80 773
Bahrain	+973 252292
Belgium	+32 (0)2 481 04 57
Bulgaria	+359 2 946 0786
China	+86 10 6515 8828
(Hong Kong	+852 2313 0888)
Czech Republic	+420 236 032 552/511
Denmark	+45 43 20 08 57
Egypt	+20 2 3938151
Finland, Latvia, Lithuania, Estonia	+358 (9)521 52 53
France	+33 (0)1 55 93 66 67
Germany	+49 (0)611 235 401
Greece	+30 210 96 92 300
Hungary	+36 (1)382 60 60
Indonesia	+62 21 385 9449
Iran	+98 21 2271463
Italy	+39 02 67 88 449
Jordan	+961 6 586 1914
Kazakhstan	+7 3272 504 777
Kuwait	+965 481 2123
Lebanon	+961 1 216827
Malaysia	+60 3 5549 5422 (PSE)
	+60 3 5546 7000 (PM)
Montenegro, Serbia	+41 (0)26 466 25 20
Netherlands	+31 73 64 02 577
New Zealand	+64 9 272 0100
Norway	+47 67 91 78 00
Pakistan	+92 5370320 21
Philippines	+63 2 633 6162
Poland	+48 (22)338 1100
Portugal	+351 21 425 77 04
Romania	+40 21 211 4855
Russia & CIS	+7 095 980 42 06
Saudi Arabia	+966 1 465 0709
Singapore	+65 6270 0110
Slovak Republic	+421 (0)2 52 92 14 23
Slovenia, Croatia, Bosnia, Macedonia	+44 (0)20 76 63 36 57
South Africa	+27 11 313 1400
Spain	+34 (93) 425 93 00
Sweden	+46 (8) 680 26 41
Switzerland	+41 (0)41 259 96 32
Thailand	+66 2 731 8888
Turkey	+90 216 578 3700
U.A.E.	+971 4 282201
Ukraine	+380 44 4903437
	+380 44 4903438
	[ext. 112]
U.K	+44 (0) 1344 70 69 20

ISO 9001 JQA-0443

ISO 14001 JACO EC98J2010 UKAS ENVIRONMENTAL MANAGEMENT 051

Factories of Systems Business Group have received ISO14001:2004-the Environmental Management System certification.

SP-AGDVC30E5

PRINTED WITH SOY INK

1K607ZM-5 Printed in Japan